

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet	1	of	2	Application Number	10/573,123
				Filing Date	11/13/2006
				First Named Inventor	Simon Anthony Brown
				Art Unit	n/a
				Examiner Name	n/a
				Attorney Docket Number	0074-537949

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		S.M. SZE, "Semiconductor Devices - Physics and Technology," pp. 428-451, Wiley, New York, 1985	
/AS/		T. HAATAINEN et al., "Pattern Transfer using Step&Stamp Imprint Lithography," Physica Scripta, 2003	
/AS/		M. COLBURN et al., "Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning," Proc. SPIE, Vol. 3676, 1999	
/AS/		D-Y KHANG et al., "Room-temperature imprint lithography by solvent vapor treatment," Appl. Phys. Letters, Vol. 76, No. 7, 2000	
/AS/		M. LI et al., "Direct three-dimensional patterning using nanoimprint lithography," Appl. Phys. Letters, Vol. 78, No. 21, 2001	
/AS/		G.M. FRANCIS et al., "Diffusion controlled growth of metallic nanoclusters at selected surface sites," J. Appl. Phys., Vol. 79, No. 6, 1996	
/AS/		W.A. DE HEER, "The physics of simple metal clusters: experimental aspects and simple models," Rev. of Mod. Phys., Vol. 65, No. 3, 1993	
/AS/		I.M. GOLDBY et al., "Diffusion and aggregation of size-selected silver clusters on a graphite surface," Appl. Phys. Lett., Vol. 69, No. 19, 1996	
/AS/		S.J. TANS et al., "Room-temperature transistor based on a single carbon nanotube," Nature, Vol. 393, 1998	
/AS/		H.D. CHOPRA et al., "Ballistic magnetoresistance over 3000% in Ni nanocontacts at room temperature," Phys. Rev., Vol. B 66, 2002	

Examiner Signature	/Ankush Singal/	Date Considered	07/24/2007
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/573,123
Filing Date	11/13/2006
First-Named Inventor	Simon Anthony Brown
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0074-537949

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/AS/		C.Z. LI et al., "Molecular detection based on conductance quantization of nanowires," Appl. Phys. Letters, Vol. 76, No. 10, 2000	
		I.M. GOLDBY et al., "Gas condensation source for production and deposition of size-selected metal clusters," Rev. Sci. Instrum., Vol. 68, No. 9, 1997	
		H. ISHIKURO et al., "Fabrication of Nano-Scale Point Contact Metal-Oxide-Semiconductor for Field-Effect-Transistors Using Micrometer-Scale Design Rule," Jpn.J.Appl.Phys., 1999	
		B. VON ISSENDORFF et al., "A new high transmission infinite range mass selector for cluster and nanoparticle beams," Rev. Sci. Instrum., Vol. 70, No. 12, 1999	
		B. HALL, "An installation for the study of unsupported ultrafine particles by electron diffraction, with application to silver: observation of multiply twinned particle	
		structures," Ecole Polytechnique Federale de Lausanne, Switzerland, 1991	
		J. SCHMELZER et al., "Finite-Size Effects in the Conductivity of Cluster Assembled Nanostructures," Phys. Rev. Letters, Vol. 88, No. 22, 2002	
		T. MULLER et al., "Template-directed self-assembly of buried nanowires and the pearling of instability," Mat. Sci. and Eng., C 19, 2002	
↓		J.G. PARTRIDGE et al., "Templated cluster assembly for production of metallic nanowires in passivated silicon V-grooves," Micro. Eng., 2004	
/AS/		T. TADA et al., "Channel waveguides fabricated in 2D photonic crystals of Si nanopillars," Micro. Eng., 2002	

Examiner Signature	/Ankush Singal/	Date Considered	07/24/2007
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.